The Road Inventory of Waccamaw National Wildlife Refuge Georgetown, SC





Prepared By: Federal Highway Administration Central Federal Lands Highway Division October, 2010



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INTRODUCTION

The Transportation Equity Act for the 21st Century (Public Law 105-178) created the Refuge Roads Program. Refuge roads are those public roads that provide access to or within a unit of the National Wildlife Refuge System and for which title and maintenance responsibility is vested in the United States Government. Funds from the Highway Trust Fund are available for refuge roads and can be used by the station to pay the cost of:

- (a) Maintenance and improvements of refuge roads.
- (b) Maintenance and improvements of:
 - (1) Adjacent vehicle parking areas
 - (2) Provision for pedestrians and bicycles and
 - (3) Construction and reconstruction of roadside rest areas that are located in or adjacent to wildlife refuges
- (c) Administrative costs associated with such maintenance and improvements.

The funds available for refuge roads are to be disbursed based on the relative needs of the various refuges in the National Wildlife Refuge System, and taking into consideration:

- (a) The comprehensive conservation plan for each refuge;
- (b) The need for access as identified through land use planning; and
- (c) The impact of land use planning on existing transportation facilities.

To determine the relative needs of the U.S. Fish and Wildlife Service, the Federal Highway Administration (FHWA) was asked to inventory all public access roads and parking lots and provide a condition assessment of each. In 2008 the inventory was expanded to include administrative (service use only) roads and parking lots. An FHWA representative meets with refuge personnel to identify route segments and assign route numbers and functional classifications (See Appendix) for each route. All roads and parking lots are mapped using Trimble GPS units and visually assessed for condition using the RSL method of evaluation developed at Utah State University (See Appendix). Culverts, Gates, Guardrails and Low Water Crossings are also mapped and inspected for any obvious defects.

An estimate is provided, in year 2008 dollars, based on the condition determined by the rating system. Estimates are based upon data and location factors from the 2008 RS Means Heavy Construction Cost Data 22nd Annual Edition. Cost estimates should be evaluated on a case-by-case basis when being used for programming purposes.

Native Surfaced roads and parking lots already inventoried will not be re-inventoried and will not appear individually in report chapters 5, 6 and 8. Mileages and areas of native surfaced roads and parking lots will still appear in all summaries in the report and will remain in the road inventory database. In addition to this report, the FHWA will furnish the condition ratings of each route and segment to the Fish and Wildlife Service in a Microsoft Access database so the data can be included in their Real Property Inventory.

Waccamaw

Summaries

Route Miles and Percentages by Functional Class and Condition

Condition Rating (Based on RSL)*

	Exc	ellent	Go	od	F	air	Po	or	Fai	iled	Total
F.C.	Miles	%	Miles	%	Miles	%	Miles	%	Miles	%	Miles
I	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00
II	0.35	100.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.35
III	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00
IV	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00
V	0.00	0.0%	2.79	46.0%	3.28	54.0%	0.00	0.0%	0.00	0.0%	6.07
Total	0.35	5.5%	2.79	43.5%	3.28	51.0%	0.00	0.0%	0.00	0.0%	6.42

^{*}For a description of condtion ratings for the various surface types see the Appendix.

Route Miles and Percentages by Surface Type and Condtion

Paved Condition Rating [Condition(RSL)]

Surface	Exce	ellent	Go	od	Fa	ir	Po	or	Fai	led	Total
Type	Miles	%	Miles	%	Miles	%	Miles	%	Miles	%	Miles
AS	0.20	100.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.20
со	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00
Total	0.20	100.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.20

Unpaved Condition Rating [Condition(RSL)]

Surface	Exce	ellent	Go	ood	Fa	air	Po	or	Fai	iled	Total
Type	Miles	%	Miles	%	Miles	%	Miles	%	Miles	%	Miles
GR	0.15	5.9%	2.13	84.4%	0.24	9.7%	0.00	0.0%	0.00	0.0%	2.52
NA	0.00	0.0%	0.67	18.0%	3.03	82.0%	0.00	0.0%	0.00	0.0%	3.70
PR	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00
Total	0.15	2.4%	2.79	44.9%	3.28	52.7%	0.00	0.0%	0.00	0.0%	6.22

Square Footage (Parking Areas) Condition Rating

Surface	Exce	llent	God	od	Fa	ir	Po	or	Fail	ed	Total
Туре	Sq Ft	%	Sq Ft	%	Sq Ft	%	Sq Ft	%	Sq Ft	%	Sq Ft
AS	3,824	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	3,824
СО	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
GR	0	0.0%	10,170	58.2%	7,311	41.8%	0	0.0%	0	0.0%	17,481
NA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
PR	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Total	3,824	18.0%	10,170	48.0%	7,311	34.0%	0	0.0%	0	0.0%	21,305

Waccamaw

Summaries

Route Miles and Percentages by Use Type and Condition Road Condition Rating: Public/Administrative Use

Use	Exce	llent	Go	od	Fa	ir	Po	or	Fail	led	Total
Type	Miles	%	Miles	%	Miles	%	Miles	%	Miles	%	Miles
Admin	0.00	0.0%	2.79	46.0%	3.28	54.0%	0.00	0.0%	0.00	0.0%	6.07
Public	0.35	100.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.35
Total	0.35	5.5%	2.79	43.5%	3.28	51.0%	0.00	0.0%	0.00	0.0%	6.42

Parking Condition Rating: Public/Administrative Use

Use	Exce	llent	Go	od	Fa	air	Po	or	Fai	led	Total
Type	Sq Ft	%	Sq Ft	%	Sq Ft	%	Sq Ft	%	Sq Ft	%	Sq Ft
Admin	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Public	3,824	17.9%	10,170	47.7%	7,311	34.3%	0	0.0%	0	0.0%	21,305
Total	3,824	17.9%	10,170	47.7%	7,311	34.3%	0	0.0%	0	0.0%	21,305

Waccamaw National Wildlife Refuge ROUTE LOCATION MAP



Waccamaw - 42512 - ROUTE IDENTIFICATION LIST (NUMERIC)

Shading Color Key:

White = Paved Routes

Yellow = Unpaved Routes

RTE #	Asset Number	ROUTE NAME	RTE MI	ROUTE DESCRIPTION	PAVED MI	UN- PAVED MI	LANES	FC
100	10047758	Entrance Road	0.20	From US Hwy 701 to end of loop	0.20	0.00	2	2
101	10054871	Visitor Parking Road	0.15	From Entrance Road (Route 100) to end of loop	0.00	0.15	2	2
400		Old Entrance Road	0.05	From US Hwy 701 to Entrance Road (Route 100)	0.00	0.05	1	5
401		Boat Ramp Access Road	0.15	From Entrance Road (Route 100) to boat ramp	0.00	0.15	1	5
402		Haulover Road 1	1.79	From US Hwy 701 to private land	0.00	1.79	1	5
403	10051149	Yauhannah Tract Road 2	1.24	From public boat ramp to private land	0.00	1.24	1	5
404	10057188	Causey Tract Main Road	1.45	From Cox Ferry Road to Causey Tract Parking (Route 905)	0.00	1.45	1	5
405	10051151	Yauhannah Tract Road 1	0.24	From public boat ramp to problem area	0.00	0.24	1	5
406	10057188	Causey Tract Road 1	0.16	From Causey Tract Main Road (Route 404) to walking path	0.00	0.16	1	5
407	10057188	Causey Tract Road 2	0.05	From Causey Tract Main Road (Route 404) to walking path	0.00	0.05	1	5
408	10057188	Causey Tract Road 3	0.05	From Causey Tract Main Road (Route 404) to walking path	0.00	0.05	1	5
409	10057188	Causey Tract Road 4	0.38	From Causey Tract Main Road (Route 404) to Causey Tract Main Road (Route 404)	0.00	0.38	1	5
410	10057188	Causey Tract Road 5	0.25	From Causey Tract Main Road (Route 404) to walking path	0.00	0.25	1	5
411	10057188	Causey Tract Road 6	0.18	From Causey Tract Main Road (Route 404) to Causey Tract Main Road (Route 404)	0.00	0.18	1	5
412	10057188	Causey Tract Road 7	0.10	From Causey Tract Main Road (Route 404) to large pine tree	0.00	0.10	1	5

Waccamaw - 42512 - ROUTE IDENTIFICATION LIST (PARKING)

Shading Color Key: White = Paved Parking Lots

Green = Unpaved Parking Lots

RTE#	Asset Number	ROUTE NAME	RTE SQFT	ROUTE DESCRIPTION	PAVED SQFT	UNPAVED SQFT
900	10056579	Visitor Parking 1	2,043		0	2,043
901	10056579	Visitor Parking 2	2,696		0	2,696
902	10056579	Visitor Parking 3	5,431		0	5,431
903	10056580	Bus Parking	1,214		1,214	0
904	10056580	Employee/ HQ Parking	2,610		2,610	0
905	10052683	Causey Tract Parking	7,311		0	7,311

CHANGES TO THE FISH AND WILDLIFE SERVICE ROAD INVENTORY REPORT

Waccamaw

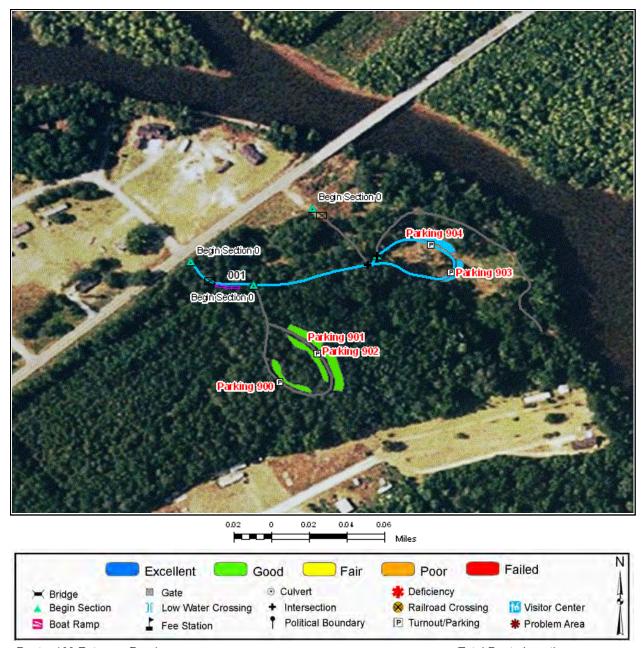
	R	outes added to previous inventory:
Rte #	Rte Name	Reason for Addition
100	Entrance Road	New Public Route
101	Visitor Parking Road	New Public Route
400	Old Entrance Road	New Administrative Route
401	Boat Ramp Access Road	New Administrative Route
402	Haulover Road 1	New Administrative Route
403	Yauhannah Tract Road 2	New Administrative Route
404	Causey Tract Main Road	New Administrative Route
405	Yauhannah Tract Road 1	New Administrative Route
406	Causey Tract Road 1	New Administrative Route
407	Causey Tract Road 2	New Administrative Route
408	Causey Tract Road 3	New Administrative Route
409	Causey Tract Road 4	New Administrative Route
410	Causey Tract Road 5	New Administrative Route
411	Causey Tract Road 6	New Administrative Route
412	Causey Tract Road 7	New Administrative Route
900	Visitor Parking 1	New Public Route
901	Visitor Parking 2	New Public Route
902	Visitor Parking 3	New Public Route
903	Bus Parking	New Public Route
904	Employee/ HC Parking	New Public Route
905	Causey Tract Parking	New Public Route

	Routes rer	noved from previous inventory:						
Rte #	Rte Name	Reason for Removal						

	Routes modified from previous inventory:									
Rte #	Rte Name	Type of Modification	Description of Modification							

С	Comments:								

Report Generated: 10/04/2010 4c - 1



Route: 100 Entrance Road Total Route Length: **0.20 Miles**

Route Description: From US Hwy 701 to end of loop

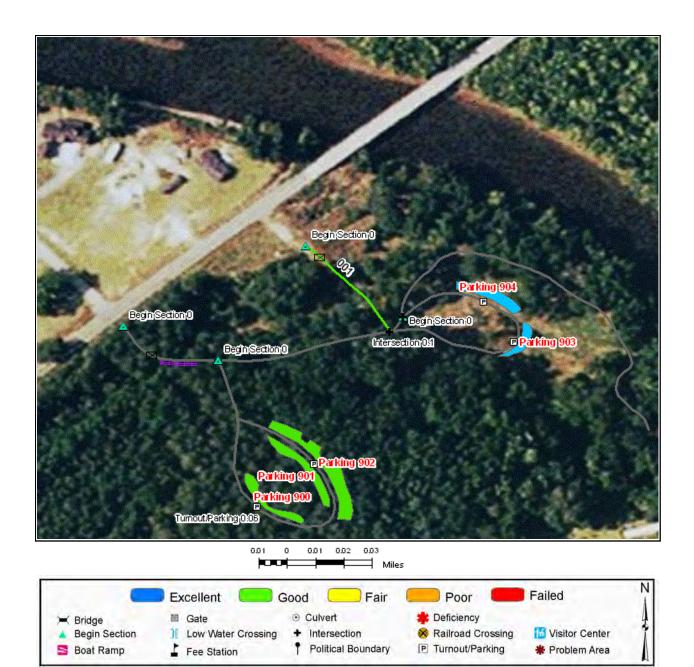
' '	•
Asset Number	10047758
Section Number	001
Section Length (miles)	0.20
Inspection Date	04/13/2010
Section Information	
Surface Type	Asphalt
Number of Lanes	2
Roadway Width (feet)	24.00
Roadway Condition Information	
Condition	Excellent
Remaining Service Life (years)	20
Cost Estimate	0
CRV	216,600.00



Failed Excellent Poor Good Fair ■ Gate Culvert ***** Deficiency ── Bridge Begin Section 1 Low Water Crossing + Intersection Railroad Crossing 16 Visitor Center Political Boundary P Turnout/Parking S Boat Ramp * Problem Area Fee Station Route: 101 Visitor Parking Road Total Route Length: 0.15 Miles

Route Description: From Entrance Road (Route 100) to end of loop

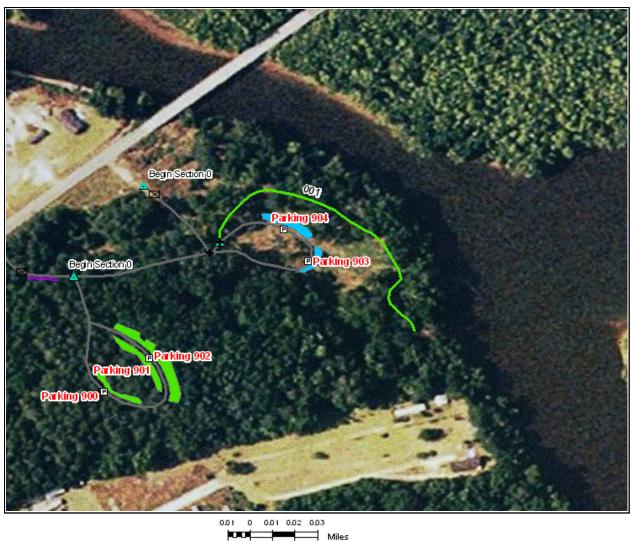
Asset Number	10054871
Section Number	001
Section Length (miles)	0.15
Inspection Date	04/13/2010
Section Information	
Surface Type	Gravel
Number of Lanes	2
Roadway Width (feet)	18.00
Roadway Condition Information	
Condition	Excellent
Remaining Service Life (years)	9
Cost Estimate	0
CRV	90.000.00



Route: 400 Old Entrance Road Total Route Length: **0.05 Miles**

Route Description: From US Hwy 701 to Entrance Road (Route 100)

	1
Asset Number	
Section Number	001
Section Length (miles)	0.05
Inspection Date	04/13/2010
Section Information	
Surface Type	Native
Number of Lanes	1
Roadway Width (feet)	12.00
Roadway Condition Information	
Condition	Good
Remaining Service Life (years)	5
Cost Estimate	100
CRV	14,300.00



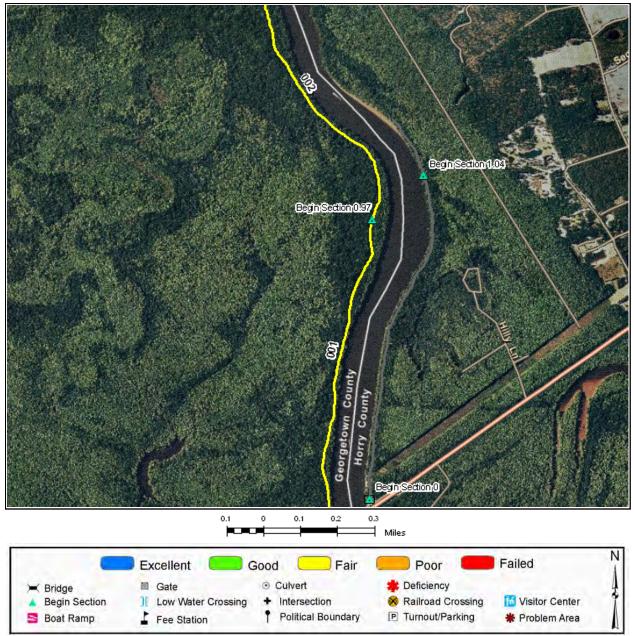
Failed Excellent Poor Good Fair ■ Gate Culvert Deficiency ── Bridge Begin Section 1 Low Water Crossing + Intersection Railroad Crossing 16 Visitor Center Political Boundary P Turnout/Parking S Boat Ramp Fee Station * Problem Area

Route: 401 Boat Ramp Access Road

Total Route Length: 0.15 Miles

Route Description: From Entrance Road (Route 100) to boat ramp

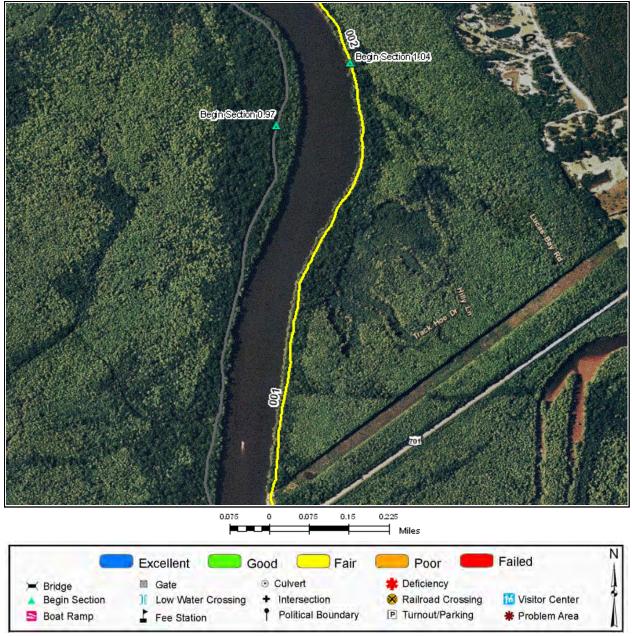
Asset Number	
Section Number	001
Section Length (miles)	0.15
Inspection Date	04/13/2010
Section Information	
Surface Type	Native
Number of Lanes	1
Roadway Width (feet)	10.00
Roadway Condition Information	
Condition	Good
Remaining Service Life (years)	5
Cost Estimate	200
CRV	46,300.00



Route: 402 Haulover Road 1 Total Route Length: 1.79 Miles

Route Description: From US Hwy 701 to private land

, , ,		
Asset Number		
Section Number	001	002
Section Length (miles)	0.97	0.82
Inspection Date	04/13/2010	04/13/2010
Section Information		
Surface Type	Native	Native
Number of Lanes	1	1
Roadway Width (feet)	12.00	12.00
Roadway Condition Information		
Condition	Fair	Fair
Remaining Service Life (years)	4	3
Cost Estimate	1,900	1,600
CRV	306,300.00	259,200.00

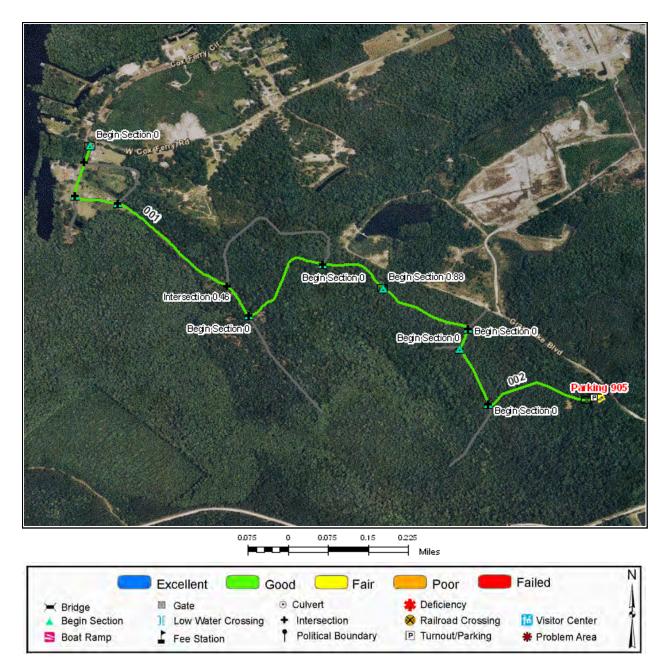


Route: 403 Yauhannah Tract Road 2

Total Route Length: 1.24 Miles

Route Description: From public boat ramp to private land

Asset Number	10051149	10051149
Section Number	001	002
Section Length (miles)	1.04	0.20
Inspection Date	04/13/2010	04/13/2010
Section Information		
Surface Type	Native	Native
Number of Lanes	1	1
Roadway Width (feet)	10.00	10.00
Roadway Condition Information		
Condition	Fair	Fair
Remaining Service Life (years)	3	4
Cost Estimate	2,000	400
CRV	328,900.00	62,100.00

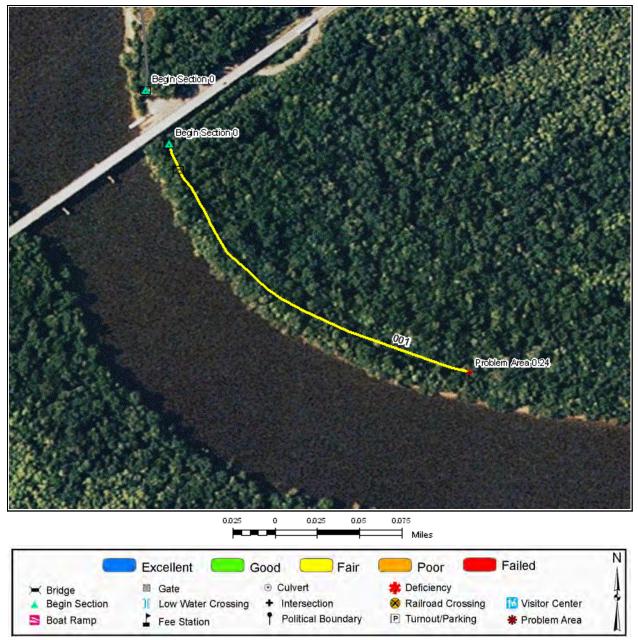


Route: 404 Causey Tract Main Road

Total Route Length: 1.45 Miles

Route Description: From Cox Ferry Road to Causey Tract Parking (Route 905)

	1	
Asset Number	10057188	10057188
Section Number	001	002
Section Length (miles)	0.88	0.57
Inspection Date	04/13/2010	04/13/2010
Section Information		
Surface Type	Gravel	Gravel
Number of Lanes	1	1
Roadway Width (feet)	10.00	10.00
Roadway Condition Information		
Condition	Good	Good
Remaining Service Life (years)	5	5
Cost Estimate	1,300	800
CRV	534,400.00	348,700.00

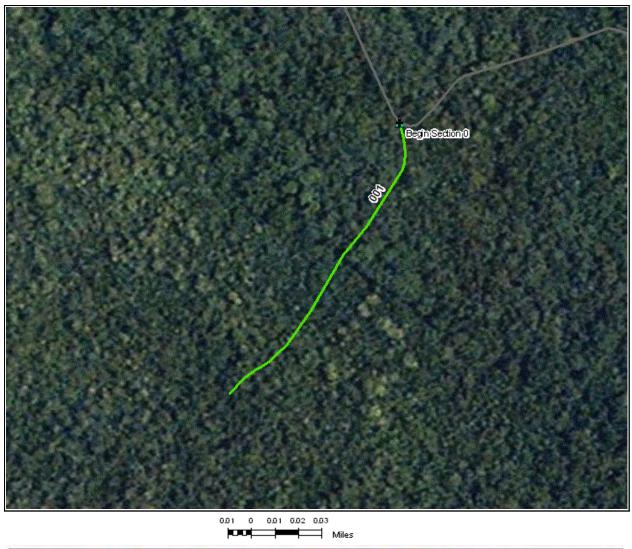


Route: 405 Yauhannah Tract Road 1

Total Route Length: 0.24 Miles

Route Description: From public boat ramp to problem area

	•
Asset Number	10051151
Section Number	001
Section Length (miles)	0.24
Inspection Date	04/13/2010
Section Information	
Surface Type	Gravel
Number of Lanes	1
Roadway Width (feet)	10.00
Roadway Condition Information	
Condition	Fair
Remaining Service Life (years)	4
Cost Estimate	800
CRV	149,200.00



Failed Excellent Poor Good Fair ■ Gate Culvert Deficiency ── Bridge Begin Section I Low Water Crossing + Intersection Railroad Crossing 16 Visitor Center Political Boundary P Turnout/Parking S Boat Ramp Fee Station * Problem Area Route: 406 Causey Tract Road 1 Total Route Length: 0.16 Miles

Route Description: From Causey Tract Main Road (Route 404) to walking path

Asset Number	10057188
Section Number	001
Section Length (miles)	0.16
Inspection Date	04/13/2010
Section Information	
Surface Type	Gravel
Number of Lanes	1
Roadway Width (feet)	10.00
Roadway Condition Information	
Condition	Good
Remaining Service Life (years)	5
Cost Estimate	200
CRV	94,800.00



■ Gate Culvert Deficiency ── Bridge Begin Section 1 Low Water Crossing + Intersection Railroad Crossing 16 Visitor Center Political Boundary P Turnout/Parking S Boat Ramp Fee Station * Problem Area Route: 407 Causey Tract Road 2 Total Route Length:

Route Description: From Causey Tract Main Road (Route 404) to walking path

Troute Description: From Gausey Tract Main Troud (Troute 4				
Asset Number	10057188			
Section Number	001			
Section Length (miles)	0.05			
Inspection Date	04/13/2010			
Section Information				
Surface Type	Gravel			
Number of Lanes	1			
Roadway Width (feet)	10.00			
Roadway Condition Information				
Condition	Good			
Remaining Service Life (years)	5			
Cost Estimate	100			
CRV	28,500.00			

0.05 Miles

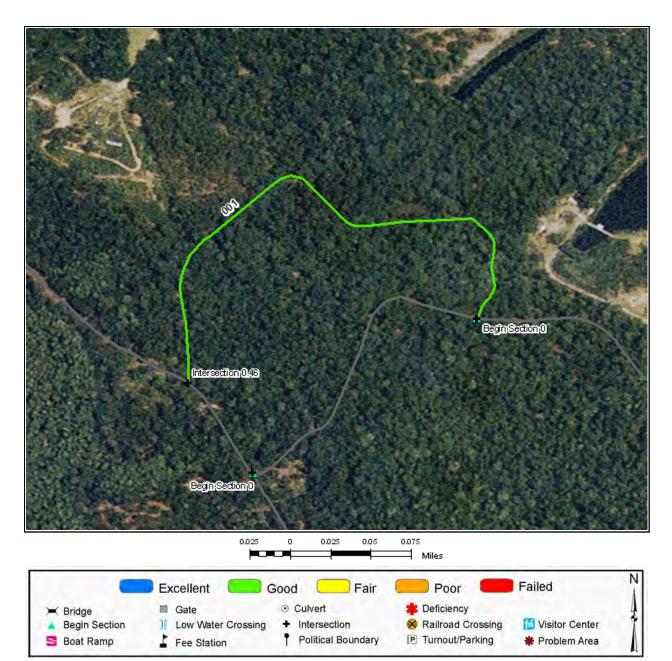


■ Gate Culvert Deficiency ── Bridge Begin Section I Low Water Crossing + Intersection Railroad Crossing 16 Visitor Center Political Boundary P Turnout/Parking S Boat Ramp Fee Station * Problem Area Total Route Length: 0.05 Miles

Route: 408 Causey Tract Road 3

Route Description: From Causey Tract Main Road (Route 404) to walking path

Asset Number	10057188
Section Number	001
Section Length (miles)	0.05
Inspection Date	04/13/2010
Section Information	
Surface Type	Gravel
Number of Lanes	1
Roadway Width (feet)	10.00
Roadway Condition Information	
Condition	Good
Remaining Service Life (years)	5
Cost Estimate	100
CRV	32,300.00

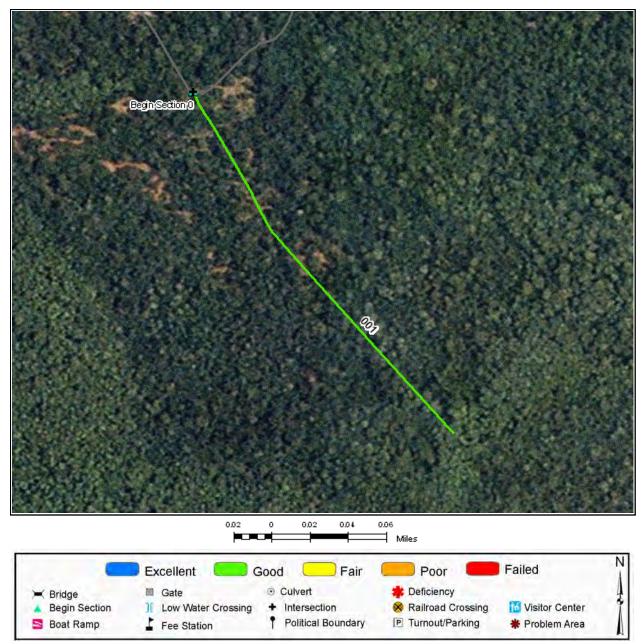


Route: 409 Causey Tract Road 4

Total Route Length: 0.38 Miles

Route Description: From Causey Tract Main Road (Route 404) to Causey Tract Main Road (Route 404)

Asset Number	10057188
Section Number	001
Section Length (miles)	0.38
Inspection Date	04/13/2010
Section Information	
Surface Type	Native
Number of Lanes	1
Roadway Width (feet)	8.00
Roadway Condition Information	
Condition	Good
Remaining Service Life (years)	5
Cost Estimate	600
CRV	119,100.00

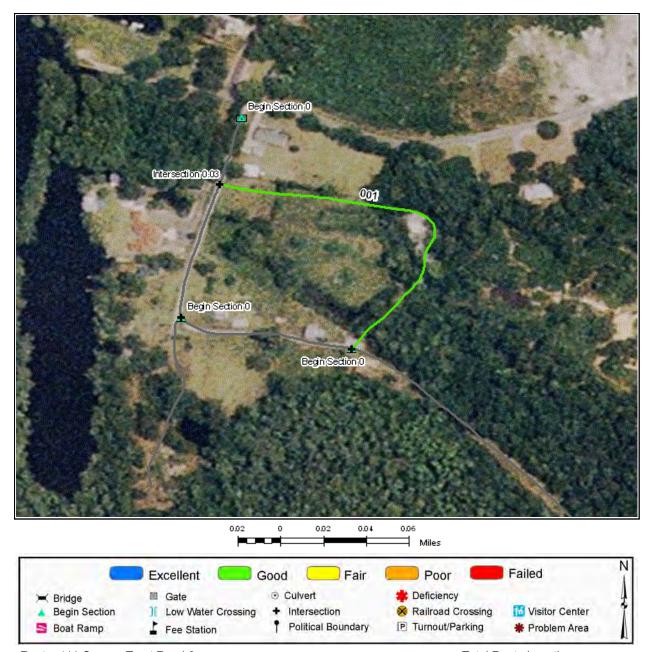


Route: 410 Causey Tract Road 5

Total Route Length: 0.25 Miles

Route Description: From Causey Tract Main Road (Route 404) to walking path

Asset Number	10057188
Section Number	001
Section Length (miles)	0.25
Inspection Date	04/13/2010
Section Information	
Surface Type	Gravel
Number of Lanes	1
Roadway Width (feet)	8.00
Roadway Condition Information	
Condition	Good
Remaining Service Life (years)	7
Cost Estimate	400
CRV	149,600.00

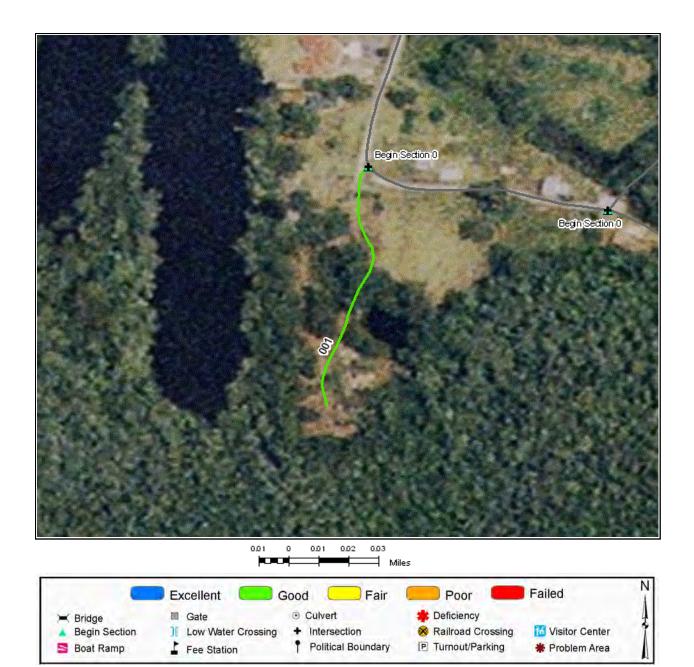


Route: 411 Causey Tract Road 6

Total Route Length: 0.18 Miles

Route Description: From Causey Tract Main Road (Route 404) to Causey Tract Main Road (Route 404)

Asset Number	10057188
Section Number	001
Section Length (miles)	0.18
Inspection Date	04/13/2010
Section Information	
Surface Type	Gravel
Number of Lanes	1
Roadway Width (feet)	8.00
Roadway Condition Information	
Condition	Good
Remaining Service Life (years)	5
Cost Estimate	300
CRV	108,900.00



Route: 412 Causey Tract Road 7

Total Route Length: 0.10 Miles

Route Description: From Causey Tract Main Road (Route 404) to large pine tree

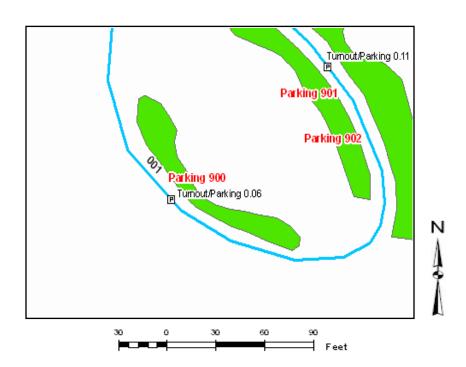
Asset Number	10057188
Section Number	001
Section Length (miles)	0.10
Inspection Date	04/13/2010
Section Information	
Surface Type	Native
Number of Lanes	1
Roadway Width (feet)	8.00
Roadway Condition Information	
Condition	Good
Remaining Service Life (years)	5
Cost Estimate	100
CRV	30,500.00

900: Visitor Parking 1

Asset Number	Date Visited	Surface Type	Area (Sq Ft)	Condition	Cost to Improve
0056579	04/13/2010	Gravel	2.043	Good	300





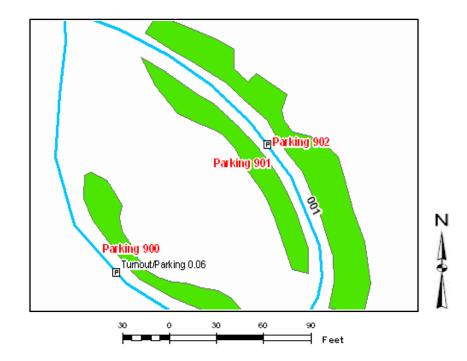


901: Visitor Parking 2

Asset	Date	Surface	Area	Condition	Cost to
Number	Visited	Type	(Sq Ft)		Improve
10056579	04/13/2010	Gravel	2,696	Good	400





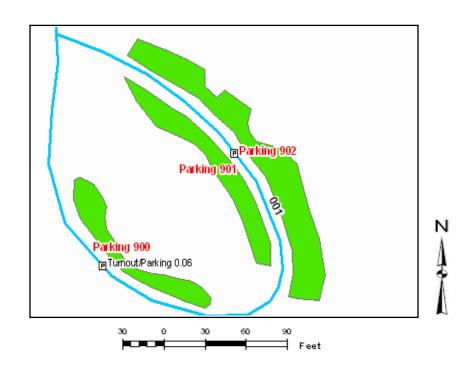


902: Visitor Parking 3

Asset Number	Date Visited	Surface Type	Area (Sq Ft)	Condition	Cost to Improve
10056579	04/13/2010	Gravel	5,431	Good	700





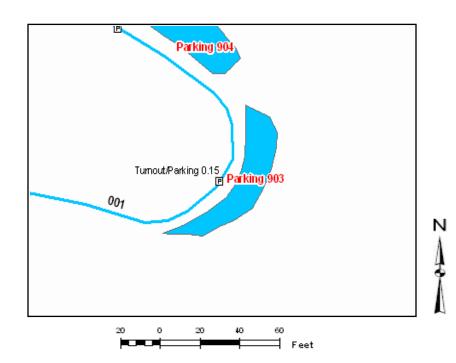


903: Bus Parking

Asset	Date	Surface	Area	Condition	Cost to
Number	Visited	Type	(Sq Ft)		Improve
10056580	04/13/2010	Asphalt	1,214	Excellent	0





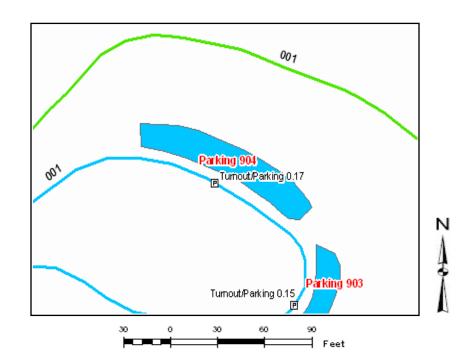


904: Employee/ HQ Parking

Asset	Date	Surface	Area	Condition	Cost to
Number	Visited	Type	(Sq Ft)		Improve
10056580	04/13/2010	Asphalt	2,610	Excellent	0





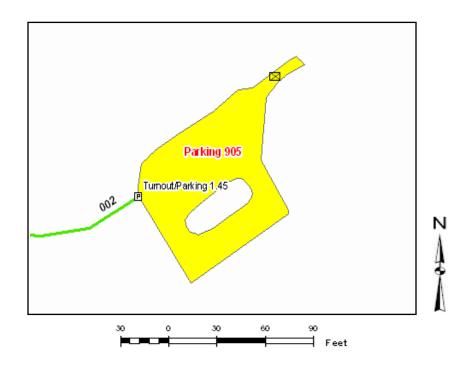


905: Causey Tract Parking

Asset Number	Date Visited	Surface Type	Area (Sq Ft)	Condition	Cost to
10052683	04/13/2010	Gravel	7,311	Fair	1,700







Waccamaw Bridge Inventory						
Route # Milepost NBIS # Sufficiency Functionally Structurally Obsolete Deficient						

ROUTE NUMBER: 100 ROUTE NAME: Entrance Road



Photo # WACC_C4_0494 - MP 0.00 - Begin Section 001
ROUTE NUMBER: 101 ROUTE NAME: Visitor Parking Road



Photo # WACC_C4_0497 - MP 0.00 - Begin Section 001
ROUTE NUMBER: 400 ROUTE NAME: Old Entrance Road



Photo # WACC_C4_0509 - MP 0.00 - Begin Section 001

ROUTE NUMBER: 401 ROUTE NAME: Boat Ramp Access Road



Photo # WACC_C4_0510 - MP 0.00 - Begin Section 001 ROUTE NUMBER: 402 ROUTE NAME: Haulover Road 1



Photo # WACC_C4_0511 - MP 0.00 - Begin Section 001 ROUTE NUMBER: 402 ROUTE NAME: Haulover Road 1



Photo # WACC_C4_0513 - MP 0.97 - Begin Section 002

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ROUTE NUMBER: 403 ROUTE NAME: Yauhannah Tract Road 2



Photo # WACC_C4_0519 - MP 0.00 - Begin Section 001
ROUTE NUMBER: 403 ROUTE NAME: Yauhannah Tract Road 2



Photo # WACC_C4_0521 - MP 1.04 - Begin Section 002

ROUTE NUMBER: 404 ROUTE NAME: Causey Tract Main Road



Photo # WACC_C4_0523 - MP 0.00 - Begin Section 001

ROUTE NUMBER: 404 ROUTE NAME: Causey Tract Main Road



Photo # WACC_C4_0542 - MP 0.24 - Round Culvert Section 001 ROUTE NUMBER: 404 ROUTE NAME: Causey Tract Main Road



Photo # WACC_C4_0541 - MP 0.53 - Round Culvert Section 001 ROUTE NUMBER: 404 ROUTE NAME: Causey Tract Main Road



Photo # WACC_C4_0525 - MP 0.88 - Begin Section 002

ROUTE NUMBER: 404 ROUTE NAME: Causey Tract Main Road



Photo # WACC_C4_0530 - MP 1.27 - Round Culvert Section 002 ROUTE NUMBER: 405 ROUTE NAME: Yauhannah Tract Road 1



Photo # WACC_C4_0516 - MP 0.00 - Begin Section 001
ROUTE NUMBER: 405 ROUTE NAME: Yauhannah Tract Road 1



Photo # WACC_C4_0518 - MP 0.24 - Problem Area 001

ROUTE NUMBER: 406 ROUTE NAME: Causey Tract Road 1



Photo # WACC_C4_0532 - MP 0.00 - Begin Section 001
ROUTE NUMBER: 406 ROUTE NAME: Causey Tract Road 1



Photo # WACC_C4_0533 - MP 0.10 - Round Culvert Section 001 ROUTE NUMBER: 407 ROUTE NAME: Causey Tract Road 2



Photo # WACC_C4_0535 - MP 0.00 - Begin Section 001

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ROUTE NUMBER: 408 ROUTE NAME: Causey Tract Road 3



Photo # WACC_C4_0536 - MP 0.00 - Begin Section 001 ROUTE NUMBER: 409 ROUTE NAME: Causey Tract Road 4



Photo # WACC_C4_0537 - MP 0.00 - Begin Section 001
ROUTE NUMBER: 409 ROUTE NAME: Causey Tract Road 4



Photo # WACC_C4_0538 - MP 0.06 - Round Culvert Section 001

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ROUTE NUMBER: 410 ROUTE NAME: Causey Tract Road 5



Photo # WACC_C4_0540 - MP 0.00 - Begin Section 001 ROUTE NUMBER: 411 ROUTE NAME: Causey Tract Road 6



Photo # WACC_C4_0544 - MP 0.00 - Begin Section 001
ROUTE NUMBER: 411 ROUTE NAME: Causey Tract Road 6



Photo # WACC_C4_0545 - MP 0.01 - Round Culvert Section 001

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ROUTE NUMBER: 412 ROUTE NAME: Causey Tract Road 7



Photo # WACC_C4_0546 - MP 0.00 - Begin Section 001

Report Generated: 10/04/2010 8 - 9

Accident Summary

Number of Accidents Reported	Timespan of Accidents	Injuries	Fatalities
0	No Accidents to Report	0	0

APPENDIX

TA	BLE 1 - GENERAL FWS ROAD FUNCTIONAL CLASSIFICATION
Class I	Principal Refuge Road (Public Roads) - Routes that constitute the main access
	route, main auto tour route, or thoroughfare for refuge visitors. These routes are
	accessible by 2WD vehicles. Routes are numbered from 10 to 99.
Class II	Connector Refuge Road (Public Roads) - Routes that provide circulation within
	the refuge. These routes can also provide access to areas of scenic, scientific,
	recreational or cultural interest, such as overlooks, campgrounds, education
	centers, etc. These routes are accessible by 2WD vehicles. Routes are numbered
	from 100 to 199.
Class III	Special Purpose Refuge Road (Public Roads) - Roads that provide circulation
	within special use areas such as campgrounds or public concessionaire facilities
	or access to remote areas of the refuge. These routes may not be 2WD accessible.
	Routes are numbered from 200 to 299
Class IV	Administrative Access Road (Administrative Roads) - Routes intended for access
	to administrative developments or structures such as maintenance offices,
	employee quarters, or utility areas. These routes are accessible by 2WD vehicles.
	These routes may restrict access to the general public. Routes are numbered from
	300 to 399.
Class V	Restricted Road (Administrative Roads) - Routes normally closed to the public,
	such as maintenance roads, service roads, patrol roads, and fire breaks. These
	routes may be open to the public for a short period of time for a special use, such
	as hunting access. These routes may not be 2WD accessible. Routes are
	numbered from 400 to 499.

A refuge road system contains those routes within or giving access to a refuge or other unit of the FWS that are administered by the FWS, or by the Service in cooperation with other agencies. The assignment of a functional classification (FC) to a refuge road is not based on traffic volumes or design speed, but on the intended use or function of that route

DESCRIPTION OF RATING SYSTEM

Rating Data is collected on four different surface types: Asphalt, Concrete, Gravel, and Native. The Utah LTAP Center's Remaining Service Life (RSL) system is used for all surface types. The RSL system is based on the Strategic Highway Research Program's (SHRP) Distress Identification Manual.

Asphalt Rating System

Data is collected on the following distresses and conditions:

- **Fatigue Cracking** Interconnected cracks forming small irregular shapes.
- **Longitudinal Cracking** Cracks running parallel with the roadway, in the direction of traffic.
- **Transverse Cracking** Cracks perpendicular to the roadway, going across the lane or lanes.
- **Block Cracking** Interconnected cracks forming large blocks.
- **Edge Cracking** Cracks running along the edge of the pavement surface.
- **Patches** Original surface repaired with new asphalt patch material.
- **Potholes** Holes or depressions in the pavement.
- **Rutting** surface depressions in the wheel paths.
- **Roughness** Evenness of pavement for serviceability.
- **Drainage** Ability of the road surface to drain water based on proper slope.

A Condition Rating value is calculated for each homogenous pavement section, and can be up to 1 mile in length.

Rating Index Formula

Fatigue, longitudinal, transverse, block, and edge cracking, along with patching and potholes are rated on a 0 - 9 scale (0 = no distress, 9 = maximum distress). The rating given is based on the extent and the severity of the distress. Rutting, roughness, and drainage are rated on a 0 - 3 scale (0 = excellent, 3 = poor). Each distress type has given Remaining Service Life (RSL) values (in years) based on the rating for that particular distress. The distress with the rating resulting in the lowest RSL value is considered to be the governing distress. That value is then assigned as the RSL of the road segment.

Concrete Rating System

Data is collected on the following distresses and conditions:

- **Spalling of Joints** Chipping, breaking, or cracking of slab edges
- **Joint Seal Damage** Any damage or condition that enables materials or water to infiltrate into the joint from the surface.
- **Corner Breaks** A portion of the slab separated by a crack that intersects the adjacent transverse and longitudinal joints, forming approximately a 45° angle to the direction.
- **Broken Slabs** Faulting and/or cracking localized to individual slabs.

- **Faulting** Difference in elevation across a crack or joint.
- **Longitudinal Cracking** Cracks in the pavement running parallel to road.
- **Transverse Cracking** Cracks in the pavement running perpendicular to the direction of traffic.
- **Patch Deterioration** Faulting, settling, or cracking of previously placed patch
- Map Cracking A series of cracks that extend only into the upper surface of the Slab

A Condition Rating value is calculated for each homogenous pavement section, and can be up to 1 mile in length.

Rating Index Formula

The rating procedure for concrete pavement is the same as that for asphalt pavement described previously. Each of the distresses described above are rated on the same 0-9 scale. The governing distress is then determined and the RSL associated with that distress is assigned to the road segment.

Gravel and Native Rating System

Data is collected on the following distresses and conditions:

- **Cross Section (Crown)** Roadway built so that the center is higher than the shoulder, to prevent water from pooling on roadway.
- **Roadside Drainage** Roadside ditches and culverts to handle water flow and prevent pooling on the roadside.
- **Corrugations (Washboarding)** Small trenches or holes developing perpendicular to the roadway.
- **Potholes** Holes or depressions in the roadway.
- **Rutting** Depressions running parallel with the roadway, in the wheelpaths.
- **Dust** Amount of dust caused by traffic.
- **Loose Aggregate (Gravel Only)** Loose gravel, typically piled up on the roadway edges or centerline.

A Condition Rating value is calculated for each homogenous pavement section, and can be up to 1 mile in length.

Rating Index Formula

The rating procedure for unpaved roads is the same as that for asphalt and concrete pavements described previously. Of the distresses described above, corrugations, potholes, rutting, and loose aggregate are rated on the same 0-9 scale previously mentioned. Cross section, roadside drainage, and dust are rated on the same 0-3 scale described for asphalt pavement. The governing distress is then determined and the RSL associated with that distress is assigned to the road segment.

Condition Descriptions by Surface Type

The following definitions are used to describe pavement condition for the various surface types. These are general guidelines for condition indications.

Asphalt

Excellent – Recently constructed or overlaid road where construction or overlay was performed correctly- No maintenance required. RSL = 19-20 years.

Good – Low extent longitudinal and transverse cracks. All cracks are 1/4" or less with little or no crack erosion. Patches are in good condition and applied correctly. Routine Maintenance recommended. RSL = 13-18 years.

Fair - Roads are in good structural condition with little or no fatigue cracking. Longitudinal, transverse, and edge cracking is at medium extent and severity. Block cracking is not extensive. Any patches are in good condition. Preventative maintenance recommended. RSL = 7-12 years.

Poor - Road beginning to show signs of structural distress. Fatigue cracking is medium to high extent and medium severity. Cracking will be severe. Surface may have severe block cracking and show. Patches are in fair to poor condition. There is moderate distortion or rutting and occasional potholes. Rehabilitation recommended. RSL = 1-6 years.

Failed - Road is severely deteriorated. Signs of structural failure appear along with severe and extensive fatigue cracking, distortion, potholes, or extensive patches in poor condition. Reconstruction recommended. RSL = 0 years.

Concrete

Excellent - New pavement. No maintenance required. RSL = 19-20 years

Good - First signs of transverse cracking, patch or repair, more extensive pop-outs, or scaling. Sealing or routine maintenance recommended. RSL = 13-18 years.

Fair – Pavement has join or crack spalling, and/or faulting, along with cracking at corners with broken pieces. Any Patches are in fair condition and faulting is at a minimum. Preventative maintenance recommended. RSL = 7-12 years.

Poor - Joints and cracks are open 1 inch, spalled, or patched. Faulting is more severe. Rehabilitation recommended. RSL = 1-6 years.

Failed - Most slabs have failed structurally, and faulting is severe. Reconstruction recommended. RSL = 0 years.11-9

The following table shows the relationship between RSL and condition.

S	SUBJECTIVE CONDITION RATING FOR REMAINING SERVICE LIFE							
	(Asphalt and Concrete Pavements)							
	FAILED	PO	OR	FAIR		GOOD		EXCELLENT
RSL Years	0	1-3	4-6	7-9	10-12	13-15	16-18	19-20

Gravel and Native

Note - Native surfaces do not have a gravel layer.

Excellent - Newly constructed road that has been constructed properly with proper crown, drainage and gravel layer. Little or no distress. No maintenance recommended. RSL = 8-10 years.

Good - Crown, drainage provisions, and gravel layer are in good condition. Distress limited to traffic effects such as dust, loose aggregate, and low severity corrugations (wash boarding). RSL = 5-7 years.

Fair - Adequate drainage and crown through majority of roadway. Crown repair, ditch improvement may be necessary. Road has more severe corrugations and potholes. Preventative maintenance recommended. RSL = 3-4 years.

Poor - Travel at slow speeds is necessary. Additional gravel layer needed to carry traffic. Poor crown. Ditching is inadequate and rutting is extensive and severe. Rehabilitation recommended. RSL = 1-2 years.

Failed - Travel is difficult, and road may be closed at times. Rutting and Corrugations are very severe. Total Reconstruction of road is recommended. RSL = 0 years.

The following table shows the RSL values for gravel and native roads in terms of excellent, good, fair, poor, and failed condition.

SUI	SUBJECTIVE CONDITION RATING FOR REMAINING SERVICE LIFE							
	(Gravel and Native Surfaces)							
	FAILED	POOR	FAIR	GOOD	EXCELLENT			
RSL Years								

NATIVE PRIMITIVE/IMPROVED RATING SHEET

	Cross Section (Crown)*						
	Condition		Description				
	No Defects	0	Crown 4-6" with no restriction of water flow from centerline to ditch.				
Severity	Minor Defects	1	Inadequate or inconsistent crown. Drainage to ditch may be restricted.				
Seve	Moderate Defects 2		Flat crown, drainage to ditch restricted.				
	Major Defects 3		Reverse crown, bowl-shaped road, drainage on roadway				

	<u>Rutting</u>							
l .	Extent (Length)							
	No Defects	Low <10%	Med 10-30%	High >30%				
_	Low < 6"	1	2	3				
Severity	Med 6-12"	4	5	6				
S	High > 12"	7	8	9				

	Roadside Drainage*						
	Condition		Description				
	No Defects	0	Wide, deep ditches (>4') with no restriction to water flow.				
rity	Minor Defects 1		Adequate ditches (>2' deep), minor obstructions restrict water flow.				
Severity	Moderate Defects 2		Shallow, narrow and obstructed ditches. Minor erosion of road.				
	Major Defects 3		No ditch, drainage on roadway with moderate to severe erosion.				

	<u>Potholes</u>							
	Extent (Area)							
	No Defects	Low <10%	Med 10-30%	High >30%				
>	Low < 6"	1	2	3				
Severity	Med 6-12"	4	5	6				
S	High > 12"	7	8	9				

	<u>Dust</u>					
	Condition		Description			
	No Defects	0	No obstruction to sight distance.			
Severity	Minor Defects	1	Sight distance > 550'			
Seve	Moderate Defects	2	Sight distance 225'-550'			
	Major Defects	3	Sight distance < 225'			

	Corrugations							
	Extent (Length)							
	No Defects	Low <10%	Med 10-30%	High >30%				
>	Low < 3"	1	2	3				
Severity	Med 3-6"	4	5	6				
S	High > 6"	7	8	9				

^{*} Crown and Drainage are not rated for roads that have no constructed crown or drainage. This applies to Native and Gravel roads.

GRAVEL RATING SHEET

	Cross Section (Crown)						
	Condition		Description				
	No Defects	0	Crown 4-6" with no restriction of water flow from centerline to ditch.				
Severity	Minor Defects	1	Inadequate or inconsistent crown. Drainage to ditch may be restricted.				
Seve	Moderate Defects 2		Flat crown, drainage to ditch restricted.				
	Major Defects 3		Reverse crown, bowl-shaped road, drainage on roadway				

Rutting							
	Extent (Length)						
	No Defects	Low <10%	Med 10-30%	High >30%			
	Low < 1"	1	2	3			
Severity	Med 1-3"	4	5	6			
S	High > 3"	7	8	9			

	Roadside Drainage			
	Condition		Description	
Severity	No Defects	0	Wide, deep ditches (>4') with no restriction to water flow.	
	Minor Defects	1	Adequate ditches (>2' deep), minor obstructions restrict water flow.	
	Moderate Defects	2	Shallow, narrow and obstructed ditches. Minor erosion of road.	
	Major Defects	3	No ditch, drainage on roadway with moderate to severe erosion.	

		Potho	oles	
		Ex	ctent (Are	ea)
	No Defects	Low <10%	Med 10-30%	High >30%
>	Low < 1"	1	2	3
Severity	Med 1-3"	4	5	6
S	High > 3"	7	8	9

	<u>Dust</u>			
	Condition		Description	
	No Defects	0	No obstruction to sight distance.	
Severity	Minor Defects	1	Sight distance > 550'	
Sev	Moderate Defects	2	Sight distance 225'-550'	
	Major Defects	3	Sight distance < 225'	

<u>Corrugations</u>				
		Ext	ent (Len	gth)
	No Defects	Low <10%	Med 10-30%	High >30%
^	Low < 2"	1	2	3
Severity	Med 2-4"	4	5	6
S	High > 4"	7	8	9

^{*} Crown and Drainage are not rated for roads that have no constructed crown or drainage. This applies to Native and Gravel roads.

Loose Aggregate					
	Extent (Area)				
	No Defects	Low <10%	Med 10-30%	High >30%	
Severity	Low < 1"	1	2	3	
	Med 1-3"	4	5	6	
S	High > 3"	7	8	9	

ASPHALT RATING SHEET

	Fatigue Cracking			
	No Defects	Low 1 crack WP	Extent Med 2 cracks WP	High >30% lenath
_	Low-Cracks < 1/4"	1	2	3
Severity	Med-Cracks 1/4-3/4"	4	5	6
S	High-Cracks > 3/4"	7	8	9

	Edge Cracking			
	Extent (Length)			
	No Defects	Low <10%	Med 10-30%	High >30%
_	0-6" from curb	1	2	3
Severity	6-18" from curb	4	5	6
S	> 18" from curb	7	8	9

	Longitudinal Cracking				
	Extent				
	No Defects	Low 1 crack full length	Med 2 cracks full length	High >2 cracks full length	
>	Low-Cracks < 1/4"	1	2	3	
Severity	Med-Cracks 1/4-3/4"	4	5	6	
S	High-Cracks > 3/4"	7	8	9	

	Block Cracking			
		Ext	t ent (Lenç	gth)
	No Defects	Low > 15x15' squares	Med 15-10' squares	High <10x10' squares
>	Low-Cracks < 1/4"	1	2	3
Severity	Med-Cracks 1/4-3/4"	4	5	6
S	High-Cracks > 3/4"	7	8	9

	Transverse Cracking				
	Extent (ft between cracks)				
	No Defects	Low > 200'	Med 200-50'	High < 50'	
>	Low-Cracks < 1/4"	1	2	3	
Severity	Med-Cracks 1/4-3/4"	4	5	6	
S	High-Cracks > 3/4"	7	8	9	

	<u>Utility Cuts</u>			
		Ext	t ent (Lenç	gth)
	No Defects	Low <10%	Med 10-30%	High >30%
>	Low-Cracks < 1/4"	1	2	3
Severity	Med-Cracks 1/4-3/4"	4	5	6
S	High-Cracks > 3/4"	7	8	9

	<u>Drainage/Roughness/Rutting</u>			
	Condition		Description	
rity	No Defects	0	Wide, deep ditches with no obstructions, smooth ride, no rutting, no potholes.	
	Minor Defects	1	Drainage may be obstructed, < 1" rutting, minor roughness.	
Seve	Moderate Defects	2	Poor drainage, 1-2" rutting, noticeable roughness, potholes < 6" wide.	
	Major Defects	3	No drainage; > 2" rutting; potholes 6-12" wide create roughness requiring reduced speeds.	

CONCRETE RATING SHEET

Spalling of Joints

Extent (% joints)

	No Defects	Low <10%	Med 10-20%	High >20%
	Low Spalls < 3"	1	2	3
Severity	Med Spalls 3-6"	4	5	6
	High Spalls > 6"	7	8	9

Broken Slabs

Extent (% slabs)

	No Defects	Low <5%	Med 5-15%	High >15%
	Low-no more than 3 pieces, no spalling/faulting	1	2	3
Severity	Med-broken into >3 pieces, spalling/faulting <1/4"	4	5	6
	High-4 or more pieces, spalling/faulting >1/4"	7	8	9

Transverse Cracks

Extent (% slabs)

		Exterit (70 Slaus)				
	No Defects	Low <10%	Med 10-20%	High >20%		
	Low-Cracks < 1/8"; no spalling/faulting	1	2	3		
Severity	Med-Cracks 1/8- 1/2"; spall <3", fault >1/4"	4	5	6		
	High-Cracks > 1/2"; spall >3", fault >1/4"	7	8	9		

Joint Seal Damage

Extent (%joints)

	Exterit (70joints)				
No Defects	Low <10%	Med 10-20%	High >20%		
Low <10% joint length	1	2	3		
Med 10-50% joint length	4	5	6		
High >50% joint length	7	8	9		

<u>Faulting</u>

Extent (Length)

	No Defects	Low <10%	Med 10-30%	High >30%
	Low < 1/2"	1	2	3
Severity	Med 1/2-1"	4	5	6
	High > 1"	7	8	9

Patch Deterioration

Extent (Area)

		Exterit (Alea)				
	No Defects	Low <10%	Med 10-30%	High >30%		
	Low-no fault, no settle at perimeter	1	2	3		
Severity	Med-fault & settle <1/4" at perimeter	4	5	6		
	High-fault & settle >1/4" at perimeter, cracked patch	7	8	9		

Corner Breaks

Extent (% of slabs)

		Extorit (70 or orabo				
	No Defects	Low <10%	Med 10-20%	High >20%		
	Low-corner cracks, no spalling or faulting	1	2	3		
Severity	Med-crack slightly spalled & faulted <1/4"	4	5	6		
	High-crack highly spalled & faulted >1/4"	7	8	9		

Longitudinal Cracks

Extent (% slabs)

	No Defects	Low <10%	Med 10-20%	High >20%
٠	Low-Cracks < 1/8"; no spalling/faulting	1	2	3
Severity	Med-Cracks 1/8- 1/2"; spall <3", fault >1/2"	4	5	6
	High-Cracks > 1/2"; spall >3", fault >1/2"	7	8	9

Map Cracks

Extent (Area)

		Extent (Alea)				
	No Defects	cts				
	Low-small connected cracks, no spalling	1	2	3		
Severity	Med-connected cracks, no spalling	4	5	6		
	High-large connected cracks with surface spalling	7	8	9		

Deficiency Ratings With Associated Remaining Service Life

Asphalt Rating Sheet

Fatigue Cracking		Edge Cracking	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	20	0	20
1	10	1	12
2	8	2	10
3	6	3	8
4	8	4	10
5	6	5	8
6	4	6	6
7	6	7	8
8	2	8	6
9	0	9	4

Transverse Cracking		Utilit	y Cuts
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	20	0	20
1	14	1	14
2	12	2	12
3	10	3	10
4	12	4	12
5	10	5	10
6	8	6	8
7	10	7	10
8	6	8	6
9	2	9	2

Longitudinal Cracking		Block Cracking	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	20	0	20
1	14	1	12
2	12	2	10
3	10	3	8
4	12	4	10
5	10	5	8
6	8	6	6
7	10	7	12
8	8	8	6
9	6	9	2

Drainage/Roughness/R utting				
Distress Rating	Remaining Service Life			
0	20			
1	16			
2	10			
3	4			

Concrete Rating Sheet

Spa	alling	Broke	Broken Slabs		se Cracks
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	20	0	20	0	20
1	15	1	15	1	18
2	12	2	12	2	15
3	10	3	10	3	12
4	12	4	12	4	15
5	10	5	10	5	10
6	8	6	8	6	6
7	10	7	10	7	10
8	6	8	6	8	4
9	0	9	0	9	0

Joint Se	al Damage	Faulting		Patch De	terioration
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	20	0	20	0	18
1	16	1	15	1	16
2	14	2	12	2	14
3	12	3	10	3	12
4	14	4	12	4	12
5	10	5	8	5	10
6	8	6	6	6	8
7	12	7	10	7	10
8	8	8	4	8	6
9	6	9	0	9	0

Corne	Corner Breaks		Longitudinal Cracks		Cracks
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	18	0	20	0	20
1	16	1	18	1	18
2	14	2	15	2	15
3	12	3	12	3	12
4	12	4	15	4	12
5	10	5	10	5	10
6	8	6	6	6	6
7	10	7	10	7	10
8	6	8	4	8	4
9	0	9	0	9	0

SUBJECTIVE CONDITION RATING FOR REMAINING SERVICE LIFE IN YEARS (Asphalt & Concrete Roads)

	FAILED	POOR	FAIR	GOOD	EXCELLENT
RSL	0	1 - 6	7 - 12	13 - 18	19 - 20

Deficiency Ratings With Associated Remaining Service Life

Native Primitive Improved Rating Sheet

4

Remaining

Service

Life

10

8

Dust

Distress

Rating

0

1

Cross Section		Ru	tting
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	10	0	10
1	7	1	9
2	5	2	7
3	0	3	5
		4	7
		5	4
			_

Roadside Drainage				
Distress Rating	Remaining Service Life			
0	10			
1	8			
2	4			
3	0			

Potholes				
Distress Rating	Remaining Service Life			
0	10			
1	9			
2	7			
3	5			
4	7			
5	4			
6	3			
7	4			
8	2			
9	0			

Corrugations				
Distress Rating	Remaining Service Life			
0	10			
1	9			
2	7			
3	7			
4	6			
5	5			
6	5			
7	4			
8	3			
9	0			

SUBJECTIVE CONDITION RATING FOR REMAINING SERVICE LIFE IN YEARS (Gravel & Native Roads)

	FAILED	POOR	FAIR	GOOD	EXCELLENT
RSL	0	1 - 2	3 - 4	5 - 7	8 - 10

Gravel Rating Sheet

Distress

Rating

0

Cross Section		Ru	tting
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	10	0	10
1	7	1	9
2	5	2	7
3	0	3	5
		4	7
		5	4
		6	3
		7	4
		0	2

Roadside Drainage				
Distress Remaining				
	Service			
Rating	Life			
0	10			
1	8			
2	4			
3	0			

Pot	holes
Distress Rating	Remaining Service Life
0	10
1	9
2	7
3	5
4	7
5	4
6	3
7	4 2
8	2
9	0

D	ust	Corrugations	
s	Remaining Service Life	Distress Rating	Remaining Service Life
	10	0	10
	8	1	9
	6	2	7
	2	3	7
		4	6
		5	5
		6	5
		7	4
		8	3
		9	0

Loose Aggregate		
Distress Rating	Remaining Service Life	
0	10	
1	9	
2	8	
3	7	
4	8	
5	7	
6	6	
7	5	
8	3	
9	0	